



CONSTRUCTION EQUIPMENT

SWO-070876 VOLVO A30G 742048 - DIESEL ENGINE



Sample No: VCP436293
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWO-070876



SAMPLE INFORMATION

Sample Number	VCP436293	VCP414004	VCP380979	VCP372983
Sample Date	01 Apr 2024	31 Jul 2023	10 Jan 2023	10 Jul 2022
Machine Hours	9280	8911	8548	8263
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	MARGINAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.4	▲ 11.4	11.6	▲ 11.7
Base Number (BN)	mg KOH/g	■ 9.1	■ 9.5	■ 10.3	■ 10.5
Oxidation (PA)	%	76	80	76	78

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	63	62	59	59
Sulfation (PA)	%	57	59	58	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 4.1	▲ 4.6	▲ 2.9	▲ 3.0
Silicon	ppm	■ 6	■ 4	■ 8	■ 5
Sodium	ppm	■ 2	■ 2	■ 3	■ 2
Potassium	ppm	■ 2	■ <1	■ 0	■ 0

WEAR METALS

Iron	ppm	■ 7	■ 5	■ 4	■ 4
Copper	ppm	■ 7	■ 3	■ <1	■ <1
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ 1
Aluminum	ppm	■ 2	■ 1	■ <1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 43	■ 42	■ 40
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	<1
Manganese	ppm	■ <1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1500	■ 1713	■ 1688	■ 1561
Magnesium	ppm	■ 516	■ 519	■ 496	■ 526
Zinc	ppm	■ 1045	■ 1133	■ 1036	■ 1042
Phosphorus	ppm	■ 879	■ 954	■ 928	■ 880
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 51	■ 55	■ 60	■ 63

Depot: WHIGUN
Unique No: 10963045
Signed: Wes Davis
Report Date: 08 Apr 2024



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GRAPHS

